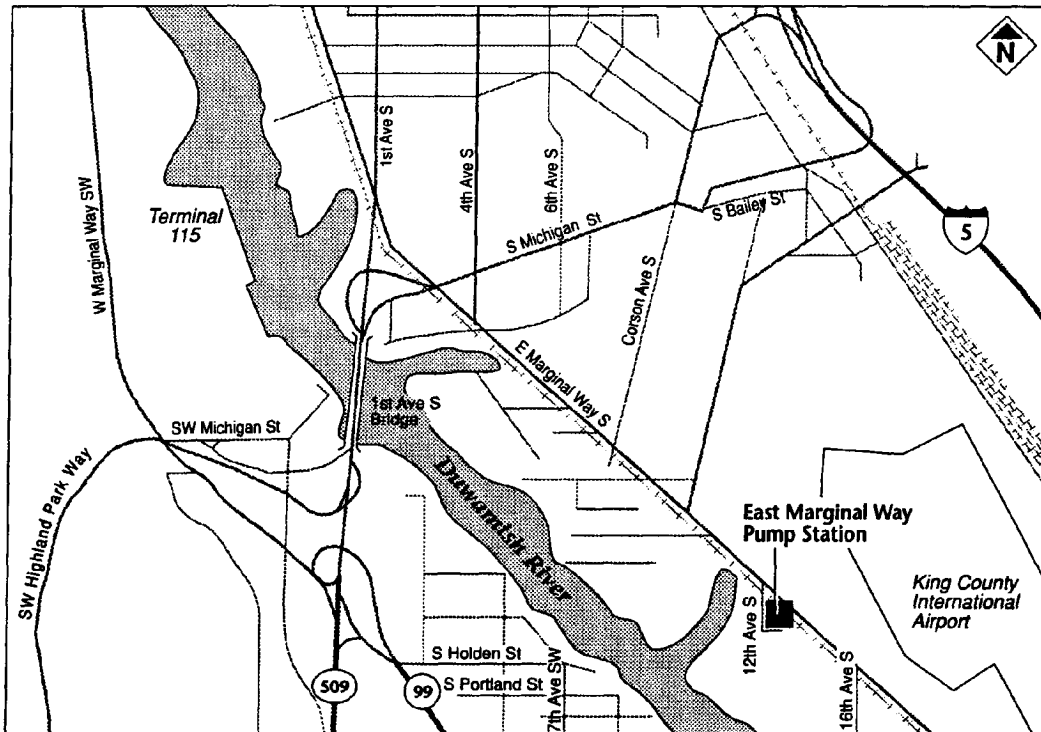


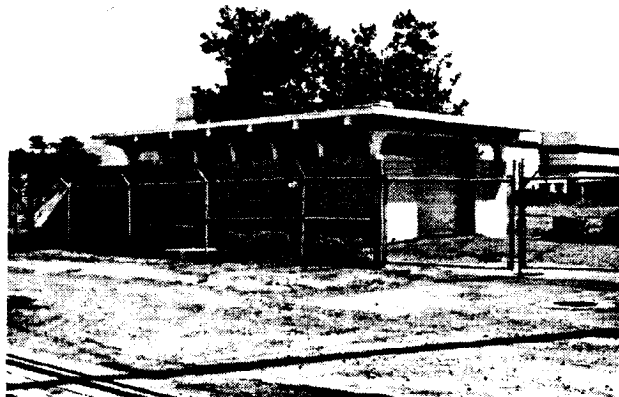
EAST MARGINAL WAY PUMP STATION

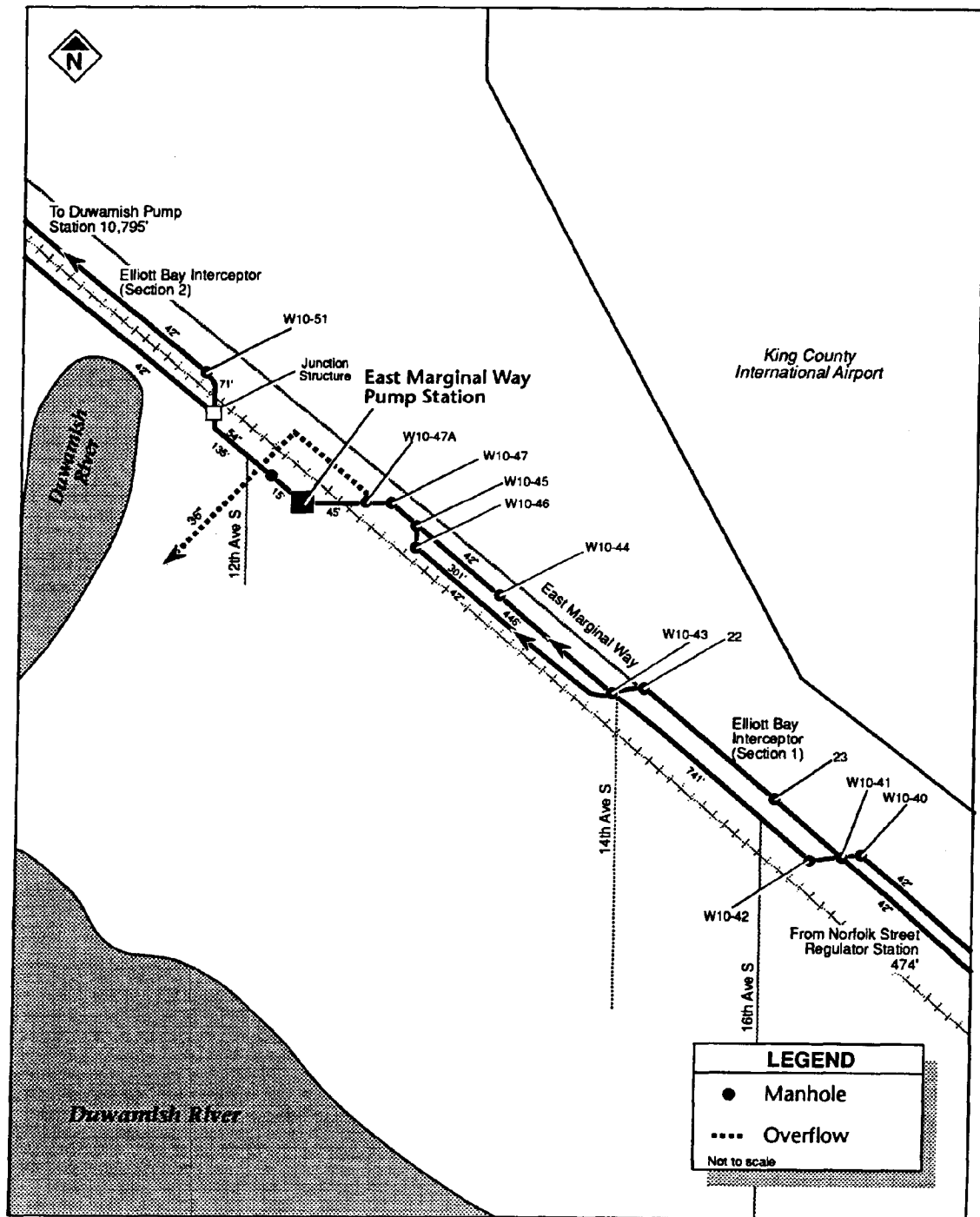
7319 E Marginal Way S, Seattle



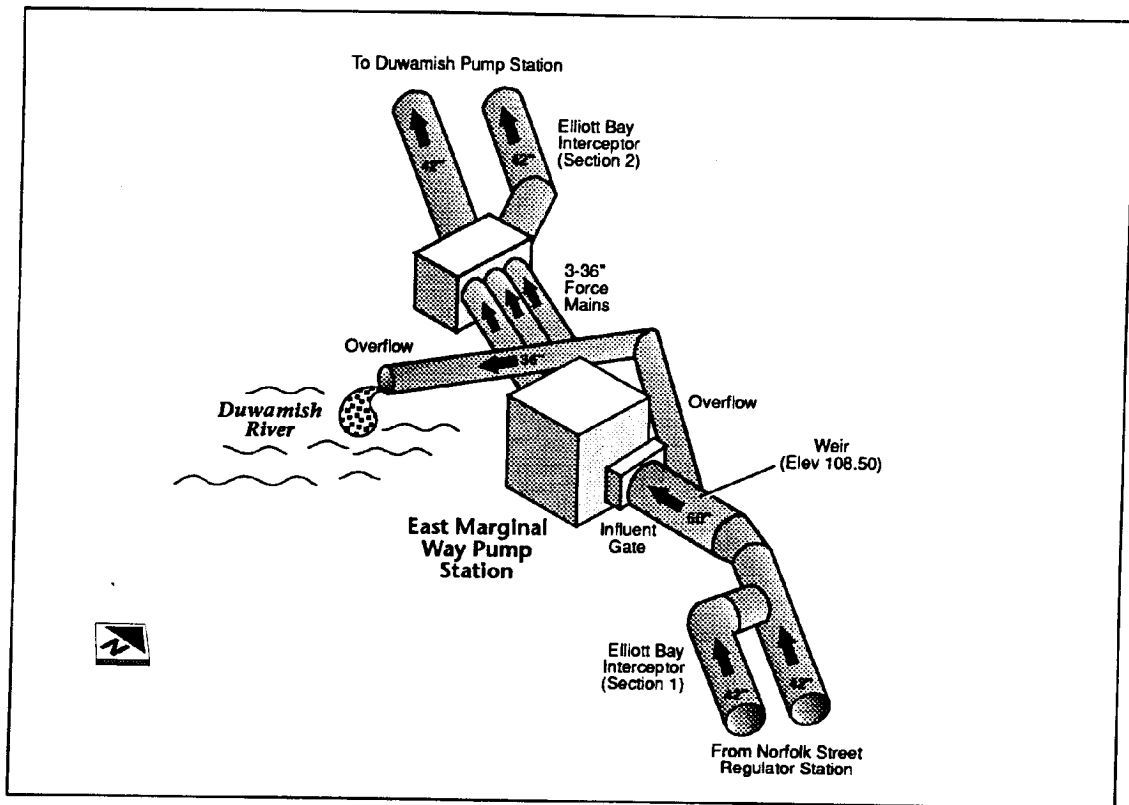
Directions

The station is located on the west side of E Marginal Way S just north of 16th Avenue S. A Boeing sign is located across from the station on the east side of E Marginal Way S.





One-Line Drawing



Flow Schematic

System Relationship

The station serves a 4,000-acre area, which includes the Boeing industrial complex. Wastewater flows from the east through the Henderson Street Trunk and the Norfolk Street Regulator Station. Wastewater is pumped through the station into the 54-inch-diameter Elliott Bay Interceptor and flows to the Duwamish Pump Station.

Flow Information (mgd)

	1980	2000
Average Dry Weather:	10.3	11.1
Average Wet Weather:	13.3	14.1
Peak (not including Seattle stormwater inflow):	27.6	30.0
Firm Pumping Capacity:	42.0	42.0

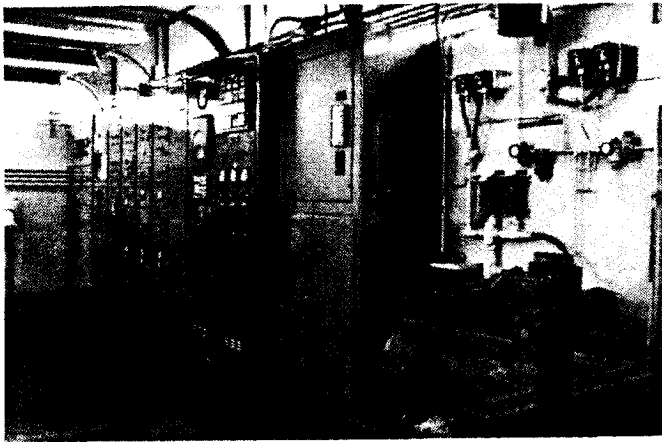
Critical Information

Emergency Power: Receptacle for generator

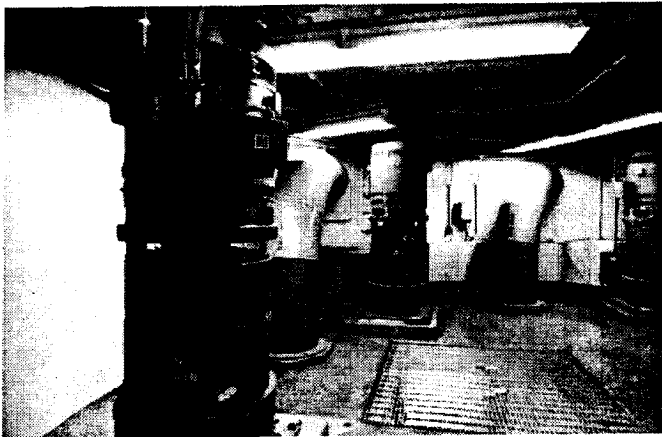
WARNING

Storage times represent the time allowed from shutdown to overflow under normal dry weather conditions. Storage times depend directly on weather conditions and condition of the pipes, and times must be adjusted accordingly.

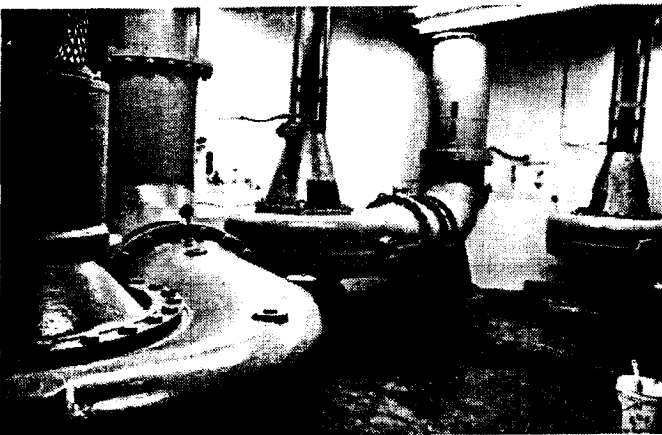
Storage Time:	1 to 1-1/2 hours
Overflow Elevation:	108.50 feet
Overflow Location:	Duwamish Waterway; through a 36-inch- diameter overflow line about 300 feet west of the station
Wet Well Grating Elevation:	100.50 feet



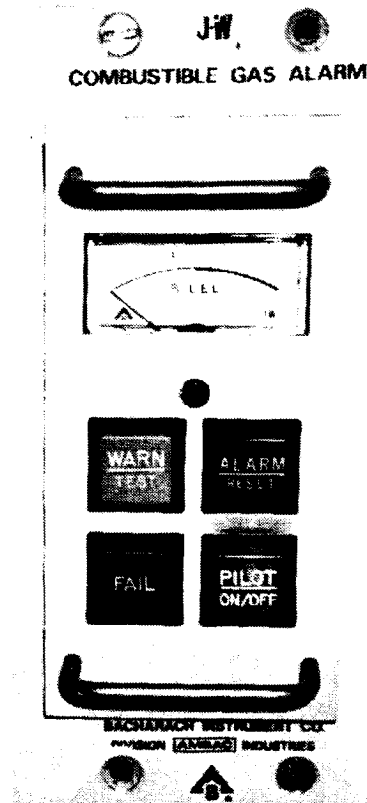
Control Room (Control Panel, Instrument Air and Service Air)



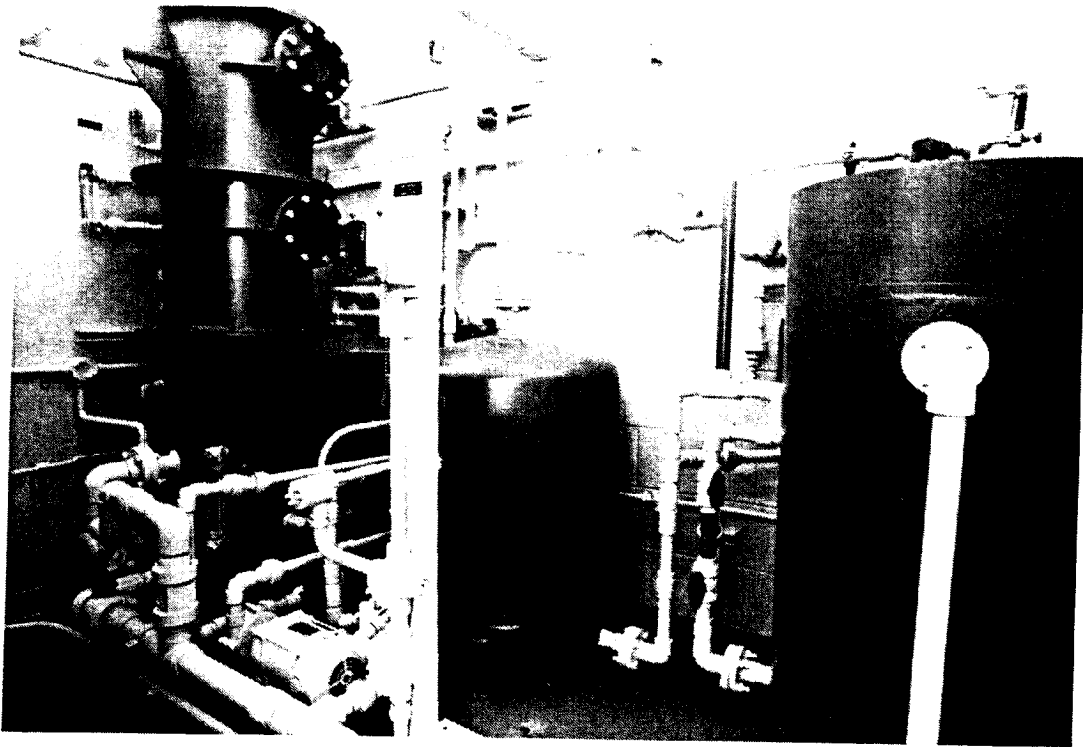
Motor Room (Motors, 24-inch-diameter Force Main Discharges)



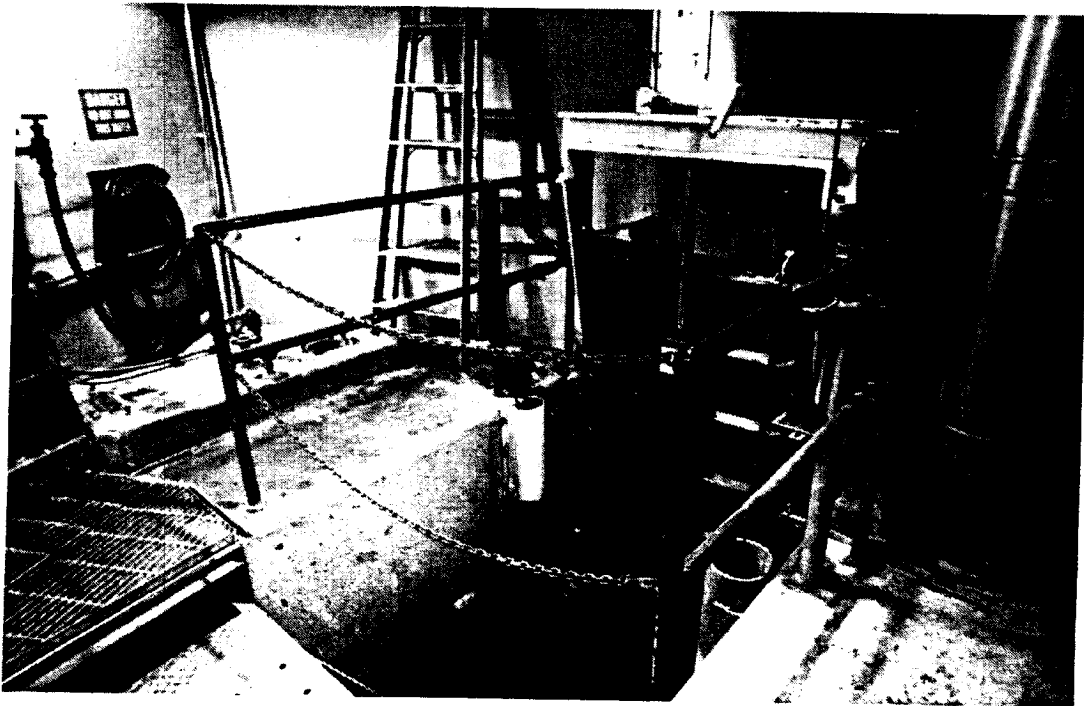
Pump Room



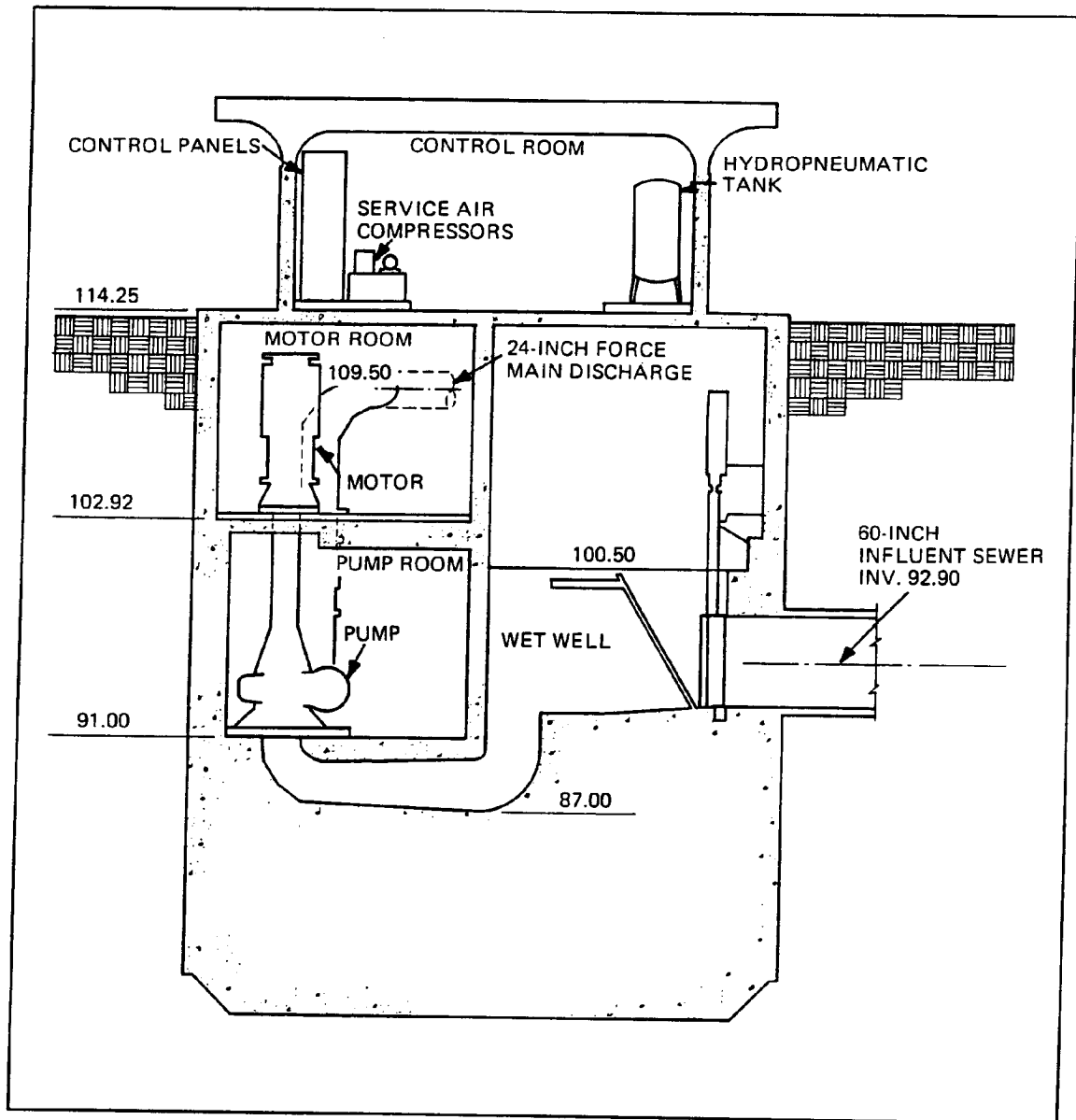
Explosive-Gas Monitor for Wet Well



Odor Control System



Wet Well (Influent Sewer Gate)



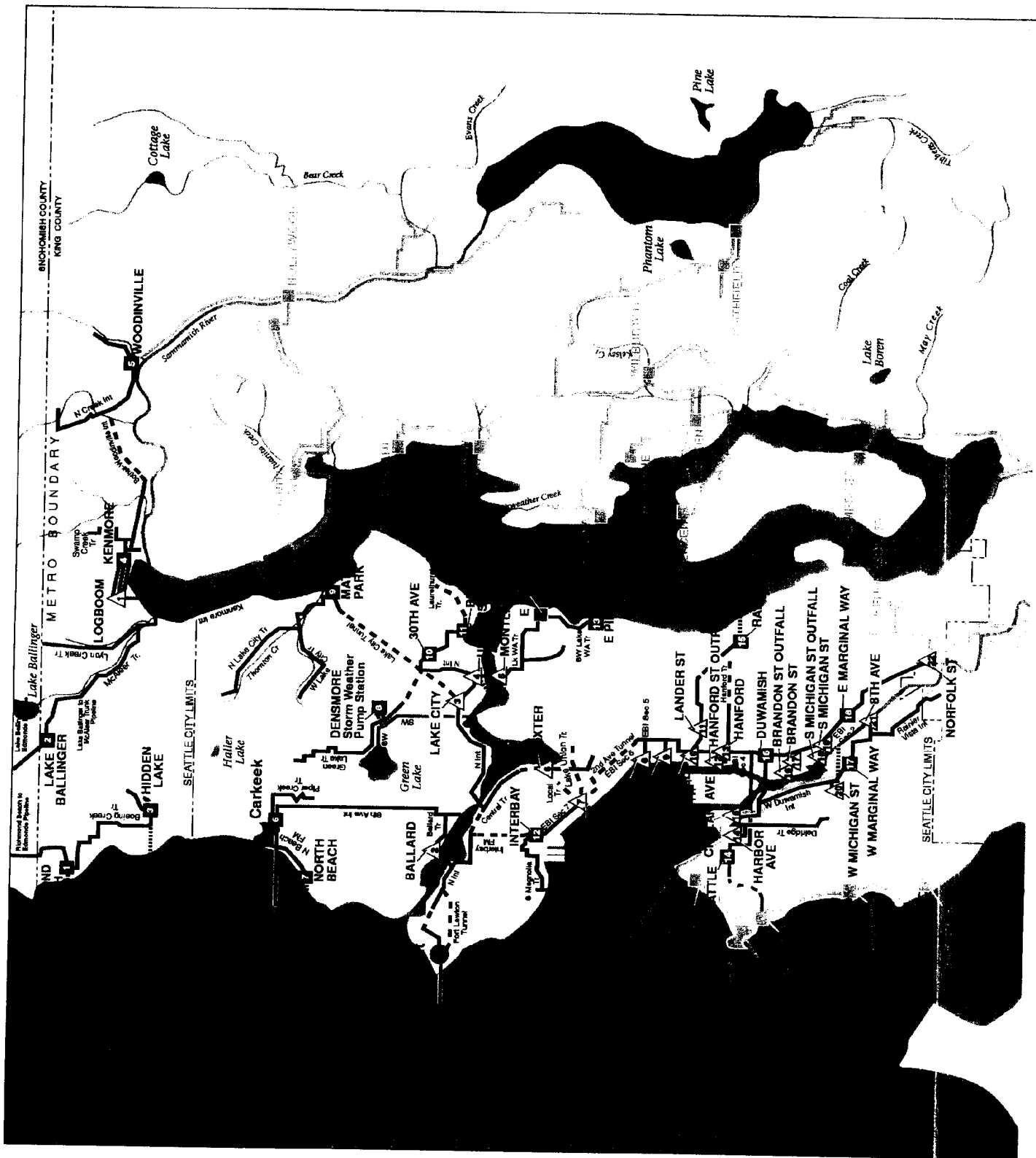
Station Cross Section

Construction Information		
Contract	Date Complete	Cost
62-8: Built pump station; Austin Construction Co.	1/64	\$192,080
M3-74: Added third pump, increased capacity; Venture Construction	1/77	\$326,153

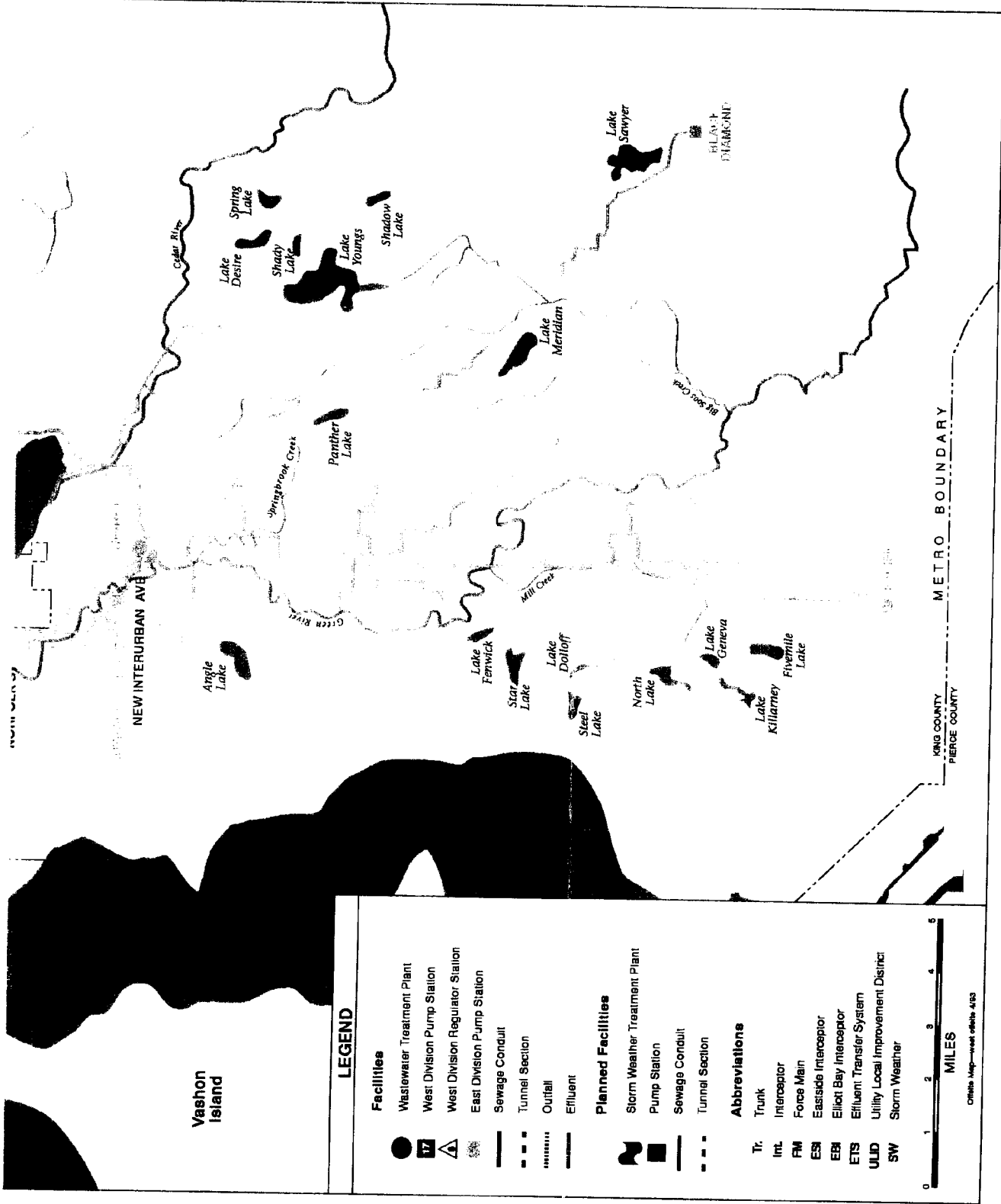
Equipment Information	
Components	Characteristics
Gate System	
Influent Gate	Armco, model 55-20; 42 in x 60 in; cast iron
Operator	Hydro-Line, model R2G; C2 water operated; operating water pressure: 150 psi; stroke: 60 in
Hand Pump	Wm. S. Pine Inc., series 2000, emergency gate operator; cat. no. 2000-12; C2 water operated; piston diameter: 1.5 in
Raw Sewage Pump System (3 Units)	
Pumping Unit 1	
Pump	Worthington, model 24NCMZ1; capacity: 6,960 gpm at 16.4 ft TDH; suction: 24 in; discharge: 24 in; impeller size: ____; s/n 1597736
Motor	General Electric, model 5K6325XC253A, type K, frame 6325P30; rating: 100 hp, 500 rpm, 460 V, 147 A, 3-phase; s/n ELJ528021
Electric Clutch	Electric Machinery, frame MBS20; rating: 92 hp, 190 V maximum; s/n 176095584
Pumping Unit 2	
Pump	Same as No. 1, except s/n 1597735
Motor	Same as No. 1, except s/n ELJ528020
Electric Clutch	Same as No. 1, except s/n 274212131
Pumping Unit 3	
Pump	Worthington, model 24MNZ; capacity: 16,000 gpm at 125 ft TDH; suction: 24 in; discharge: 25 in; impeller size: ____ in; s/n 74-2001089-1
Motor	Same as No. 1, except s/n ELJ528022
Electric Clutch	Same as No. 1, except s/n 374212131

Equipment Information (continued)	
Components	Characteristics
Electrical Systems	
Utility Power	Seattle City Light
Control Battery Charger	Ratelco, model 2111K, type VR24122; output: 12 A, 24 Vdc
Batteries	Nife, model MDP-7, ni-cad; eighteen 1.42 V batteries connected in series
UPS	_____
Water Systems	
C1 Water	
Water Service	1-in incoming service; meter located in garden inside fence, 1 ft south of lettering on station
Backflow Preventer	Hersey-Beeco, model 6C; 1.5 in; s/n 1708
Sprinkler Timer	Telsco Weathermatic, model EM7-24; s/n 305049
C2 Water	
C2 Water Pumps (2)	Roth, model A256BF, turbine pumps; capacity: 20 gpm at 175 ft TDH; (1) s/n 132921, (2) s/n 145271
Motors (2)	Wagner, model 184-66481-00, type RPI, frame 184; No. ABD3V; rating: 2 hp, 1,750 rpm, 208/220/440 V, 6.2/3.1 A, 3-phase; (1) ID no. ABD3V, (2) ID no. AAL3S
Compressed Air Systems	
Service Air	
No. 1 Compressor	Ingersoll-Rand, model 222C4, type 30; rating: 110-130 psi; size 2.5 x 2.5 x 2.75; s/n 200329
Motor	General Electric, model 5K184AG201, frame 184; rating: 1.5 hp, 1,730 rpm, 220/440 V, 5.0/2.5 A, 3-phase
No. 2 Compressor	Same as No. 1, except s/n 205469
Motor	Westinghouse, model ABDP, frame 184; rating: 1.5 hp, 1,735 rpm, 220/440 V, 4.6/2.3 A, 3-phase
Instrument Air	
Compressors (2)	ITT Pneumotive, model DTOGH715-T, double-ended, 4-cylinder; rating: 30 to 35 psi; s/n 180439P
Motors (2)	Century, frame M56Y, type SC; rating: 1.5 hp, 1,725/1,425 rpm, 230/460 V, 4.6/2.3 A, 3-phase; p/n 8-141003-01

Equipment Information (continued)	
Components	Characteristics
Heating and Ventilation Systems	
Air Handling Fan	McQuay, Seasonvent model LYF108CI, 2-speed; capacity: 4,040 cfm; s/n 3FF00191
Motor	U.S., frame 145T, type T; rating: 1.0/0.5 hp, 1,800/900 rpm, 460 V, 3-phase; ID no. 9222
Heater	Trane, model GPA801005A, type 135-0504-4A, gas heater; s/n 3C-17362
Pump Room Transfer Fan	New York Blower, shop no. 24435, type B, size 122; capacity: _____ cfm
Motor	Baldor, frame 49; rating: 0.33 hp, 1,725 rpm, 115 V, 1-phase; s/n W481
Wet Well Exhaust Fan	New York Blower, shop no. Z4435, type B, size 150; capacity: 2,260 cfm
Motor	Rating: 0.33 hp, 1,725 rpm, 115 V, 1-phase
Drainage System	
Sump Pump	_____
Odor Control System	
Pepcon System	_____
Control System	
PLC	_____
Bubblers (2)	_____
Metrotel II	_____
Miscellaneous	
Trolley Hoist	Yale, model KEL2-31P71/252, series KEL; capacity: 2 tons; s/n K107181D 2/75; motor rating: 1 hp, 1,700 rpm, 230/460 V, 3-phase
Chain Hoist	Yale, manually operated chain hoist (wet well); capacity: 0.5 ton
Explosive-Gas Monitor	Bacharach Instrument, model CD830P; s/n 7A03PC3



Offsite Facilities and Miscellaneous Structures, Volume 2, West Division



KEY

Regulator Stations		Regulator Stations, continued		Pump Stations, continued	
1	1-207 Logboom Park Regulator Station 6001 NE Bothell Way, Kenmore	15	1-43 Chelan Avenue Regulator Station 3455 Chelan Avenue SW, Seattle	5	1-325 Woodinville Pump Station 12900 Woodinville-Duvall Road, Woodinville
2	1-5 Ballard Regulator Station 5110 Shishole Avenue NW, Seattle	16	1-27 Brandon Street Outfall Station 5241 E Marginal Way S, Seattle	6	1-33 Carkeek Pump Station 1201 NW Carkeek Park Road, Seattle
3	1-185 Lake City Tunnel Regulator Station 708 NE 40th Street, Seattle	17	1-21 Brandon Street Regulator Station 5241 E Marginal Way S, Seattle	7	1-241 North Beach Pump Station 9921 Triton Drive NW, Seattle
4	1-295 University Regulator Station 1901 NE Pacific Place, Seattle	18	1-279 South Michigan Street Outfall Station 59 S Michigan Street, Seattle	8	1-67 Densmore Storm Weather Pump Station NE 68th Street and Weedlin Place NE, Seattle
5	1-229 Montlake Boulevard Regulator Station 2910 Montlake Boulevard E, Seattle	19	1-273 South Michigan Street Regulator Station 159 S Michigan Street, Seattle	9	1-215 Matthews Park Pump Station 9310 Sand Point Way NE, Seattle
6	1-75 Dexter Avenue Regulator Station 1419 Dexter Avenue N, Seattle	20	1-309 West Michigan Street Regulator Station 6769 W Marginal Way SW, Seattle	10	1-285 30th Avenue NE Pump Station 4703 30th Avenue NE, Seattle
7	1-57 Denny Way Regulator Station 3165 Alaskan Way, Seattle	21	1-111 8th Avenue South Regulator Station 760 S Portland Street, Seattle	11	1-11 Belvoir Pump Station 3901 Surber Drive NE, Seattle
8	1-169 King Street Regulator Station 499 Alaskan Way S, Seattle	22	1-235 Norfolk Street Regulator Station 10000 E Marginal Way S, Seattle	12	1-145 Interbay Pump Station 1601 W Garfield Street, Seattle
9	1-49 Connecticut Street Regulator Station 1199 Alaskan Way S, Seattle	Pump Stations		13	1-101 East Pine Street Pump Station 1600 Lake Washington Boulevard E, Seattle
10	1-201 Lander Street Outfall Station 2701 E Marginal Way S, Seattle	1	1-261 Richmond Beach Pump Station 2640 NW 198th Street, King County	14	1-315 West Seattle Pump Station Approximately 3001 Harbor Avenue SW, Seattle
11	1-191 Lander Street Regulator Station Colorado Avenue S and S Lander Street, Seattle	2	1-175 Lake Ballinger Pump Station 2205 N 205th (Lake Ballinger Way), King County	15	1-251 Rainier Avenue Pump Station 3761 Rainier Avenue S, Seattle
12	1-123 Hanford Street Outfall Station 2999-1/2 E Marginal Way S, Seattle	3	1-135 Hidden Lake Pump Station 16700 10th Avenue NW, Seattle	16	1-81 Duwamish Pump Station 4501 E Marginal Way S, Seattle
13	1-117 Hanford Street Regulator Station 2999 E Marginal Way S, Seattle	4	1-157 Kenmore Pump Station 6719 NE 175th Street, Kenmore	17	1-301 West Marginal Way Pump Station 7119 W Marginal Way SW, Seattle
14	1-129 Harbor Avenue Regulator Station 3432 Harbor Avenue SW, Seattle			18	1-91 East Marginal Way Pump Station 7319 E Marginal Way S, Seattle